

UNITED STATES PATENT AND TRADEMARK OFFICE

TRO STAYS OF LINES			Address: COMMISSIONER OF P Washington, D.C. 20231 www.uspto.gov	ATENTS AND TRADEMARKS
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/939,069	08/24/2001	James T. Veligdan	BSA 99-36	4263
	590 10/23/2002			
REED SMITH			EXAM	INER
2500 ONE LIB 1650 MARKET	STREET		CRUZ, N	ЛAGDA
PHILADELPH	IA, PA 19103		ART UNIT	PAPER NUMBER
			2851	
			DATE MAILED: 10/23/2002	2

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	Application No.	Applicant(s)
•		09/939,069	VELIGDAN ET AL.
	Office Action Summary	Examiner	Art Unit
		Magda Cruz	2851
	- The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address
Period fo	• •		
THE N - Exten after 9 - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, exply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).
1) 🖂	Responsive to communication(s) filed on 24.4	August 2001	
2a)□		is action is non-final.	
3)	Since this application is in condition for allowa		rosecution as to the merits is
,	closed in accordance with the practice under		
•	on of Claims		
•	Claim(s) $1-40$ is/are pending in the application		
•	4a) Of the above claim(s) is/are withdrav	vn from consideration.	
5)	Claim(s) is/are allowed.		
6)⊠	Claim(s) <u>1-15,17-35 and 37-40</u> is/are rejected.		
7)⊠	Claim(s) <u>16 and 36</u> is/are objected to.		
•	Claim(s) are subject to restriction and/or on Papers	r election requirement.	
9) 🗌 🗆	The specification is objected to by the Examine	r.	
10) 🔲 🛚	The drawing(s) filed on is/are: a)☐ accep	ted or b)☐ objected to by the Exar	miner.
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).
11) 🔲 🛚	The proposed drawing correction filed on	is: a)□ approved b)□ disappro	ved by the Examiner.
	If approved, corrected drawings are required in rep	ly to this Office action.	
12) 🔲 🛚	The oath or declaration is objected to by the Ex	aminer.	
Priority u	nder 35 U.S.C. §§ 119 and 120		
13)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).
a)[☐ All b) ☐ Some * c) ☐ None of:		
	1. Certified copies of the priority documents	s have been received.	
	2. Certified copies of the priority documents	s have been received in Applicati	on No
	3. Copies of the certified copies of the prior application from the International Buree the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	
	cknowledgment is made of a claim for domesti	•	
	☐ The translation of the foreign language pro		
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Attachment	(s)		
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u>	5) Notice of Informal F	v (PTO-413) Paper No(s) Patent Application (PTO-152)
J.S. Patent and Tr	ademark Office		

DETAILED ACTION

Drawings

 This application has been filed with informal drawings which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-6, 8-10, 12-13, 21-26, 28-30 and 32-33 are rejected under 35 U.S.C. 102(b) as being anticipated by Takahashi, et al.

Takahashi, et al. (US Patent Number 4,729,631) discloses an optical display system (Figure 1) for displaying a projected image and method for the same, comprising a projector that projects an image beam (P); a prismatic optical panel (S) optically aligned with said projector, wherein said panel receives said beam, turns said image beam, and displays said turned image beam (column 5, lines 14-36). The panel (S) includes a prismatic first side (1A, 1B) optically aligned with said projector for receiving said image beam at an acute angle of incidence (column 4, lines 25-37), wherein said panel (S) is effective for reflecting said image beam (Figure 4), and wherein said panel

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displays said reflected image beam from an opposite second side thereof (Figure 3). The panel (S) first side includes a multitude of parallel elongated prisms (1), wherein said imaging optics are aligned with said first side for projecting said image beam transversely across said prism (1) for being transversely expanded at said panel second side (column 2, lines 4-15). Each of said prisms includes a first facet (1A) for channeling said image beam therethrough, and an opposite second facet adjoining said first facet (1A) for reflecting said image beam toward said panel second side (1B), having an apex angle (θ_1) therebetween.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 7, 11, 14, 27, 31 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi, et al. in view of Takada et al.

Takahashi, et al. (US Patent Number 4,729,631) teaches the salient features of the present invention, except a diffuser at said panel second side, a mirror coating for effecting specular reflection of the image beam inside the prisms, and a light control layer.

Takada et al. (US Patent Number 6,020,090) discloses a diffuser (523) at said panel second side, a mirror coating (column 25, line 27) for effecting specular reflection

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of the image beam inside the prisms (614), and a light control layer (column 2, lines 20-30).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to utilize the diffuser, mirror coating and light control layer disclosed by Takada et al. in combination with Takahashi, et al.'s invention, for the purpose of producing an image capable of increasing a visible area during reproduction.

6. Claims 15, 17, 35 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi, et al. in view of Takada et al. as applied to claims 7, 11, 14, 27, 31 and 34 above, and further in view of Blanchard.

Takahashi, et al. (US Patent Number 4,729,631) in combination with Takada et al. (US Patent Number 6,020,090) teaches the salient features of the present invention, except microlouvers, which direct the projected image to a desired location, wherein said microlouvers are encased in a thin film comprised of plastic or glass.

Blanchard (US Patent Number 5,543,870) discloses microlouvers (column 8, line 18), which direct the projected image to a desired location (column 8, lines 20-21), wherein said microlouvers are encased in a thin film comprised of plastic or glass (column 7, lines 61-65).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to utilize the microlouvers disclosed by Blanchard, in combination with Takahashi, et al. and Takada et al.'s invention, for the purpose of effectively diffusing the image through a wider viewing angle pattern.

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7. Claims 18-19 and 38-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi, et al. in view of Laine et al.

Takahashi, et al. (US Patent Number 4,729,631) teaches the salient features of the present invention, except a panel including a tint comprising dark dye molecules or dark particulates.

Laine et al. (US Patent Number 4,792,209) discloses a panel (i.e. one of the elements of the projection screen; element 12) including a tint comprising dark dye molecules or dark particulates (column 7, lines 61-66).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to utilize the panel with the dark dye, disclosed by Laine et al. in combination with Takahashi, et al.'s invention, for the purpose of minimizing the light scattering, thereby improving the sharpness of the image.

8. Claims 20 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi, et al. in view of Takada et al. as applied to claims 7, 11, 14, 27, 31 and 34 above, and further in view of Laine et al.

Takahashi, et al. (US Patent Number 4,729,631) in combination with Takada et al. (US Patent Number 6,020,090) teaches the salient features of the present invention, except a tint comprising dark dye molecules or dark particulates.

Laine et al. (US Patent Number 4,792,209) discloses that one of the elements of the projection screen comprises a tint comprising dark dye molecules or dark particulates (column 7, lines 61-66).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to utilize the dark dye, disclosed by Laine et al. in combination with Takahashi, et al.'s invention, for the purpose of minimizing the light scattering, thereby improving the sharpness of the image.

Allowable Subject Matter

- 9. Claims 16 and 36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 10. The following is a statement of reasons for the indication of allowable subject matter: the prior art does not teach a display system, comprising in combination with the additionally recited elements, microlouvers in dark color such that the ambient light is absorbed thereby enhancing contrast of said projected image.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Magda Cruz whose telephone number is (703)308-6367. The examiner can normally be reached on Monday through Thursday 8:00-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams can be reached on (703)308-2847. The fax phone numbers

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for the organization where this application or proceeding is assigned are (703)872-9318 for regular communications and (703)872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-1782.

RUSSELL ADAMS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

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Magda Cruz Patent Examiner October 19, 2002 ATTY. DOCKET NO.
BSA 99-36

APPLICANT
Veligdan et al
FILING DATE
August 24, 2001

ATTY. DOCKET NO.
SERIAL NO.
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4nc		5	0	6	6	9	4	7	11/1991	Du Castel	340	815.42		
4nc		5	2	7	4	4	0	6	12/1993	Tejima et al.	353	70		
4hc		5	3	8	1	5	0	2	01/1995	Veligdan	385	115		
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EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.96(b))

ATTY. DOCKET NO.
BSA 99-36

APPLICANT
Veligdan et al
FILING DATE
August 24, 2001

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4nc		5	4	5	5	8	8	2	10/1995	Veligdan	385	116		
Inc.		5	4	8	1	3	8	5	01/1996	Zimmerman et al.	349	62		
4nc		5	5	2	1	7	2	5	05/1996	Beeson et al.	349	95		
SAC		5	6	2	5	7	3	6	04/1997	Veligdan	385	120		
4hC		5	6	4	2	4	4	9	06/1997	Phillips	385	33		
4nc		5	6	6	8	9	0	7	09/1997	Veligdan	385	120		
4C		5	6	8	4	9	0	5	11/1997	Sugawara et al.	385	120		
4nc		5	7	1	6	1	1	8	02/1998	Sato et al.	353	98		
4hC		5	7	6	4	8	4	5	06/1998	Nagatani et al.	385	146		
Sho		5	9	1	4	7	6	0	06/1999	Daiku	349	45		
SAC		5	9	4	0	5	5	6	08/1999	Sugawara	385	28		
4nc		6	0	0	2	8	2	6	12/1999	Veligdan	385	120		
She		6	.0	1	2	8	1	6	01/2000	Beiser	353	122		
4nc		6	0	3	1	9	5	4	02/2000	Higuchi	385	120		
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EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Us sev ral sheets if necessary)

(37 CFR 1.96(b))

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4hC		4	0	9	0	1	0	4	05/1978	Vann et al.	313	422	 	
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mc.		4	9	1	9	5	1	3	04/1990	Nakakuki et al.	385	127		
Ync_		5	5	6	5	8	3	9	10/1996	Poss	340	331		
4hc		5	8	3	8	8	6	5	06/1997	Gulick	385	121		
4hc		5	8	2	1	9	1	1	10/1998	Jachimowicz	345	7		
4hc		5	6	9	6	8	6	2	12/1997	Hauer et al.	385	88		
4MC		5	5	4	3	8	7	0	08/1996	Blanchard	353	74		
MC		4	4	9	7	8	6	0	2/1985	Brady, Jr.	428	154		
4nc		4	8	2	3	2	4	6	4/1989	Dilouya	362	328		
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ync			0	6	0	7	0	03/1990	Cobb, Jr.		359	834		
40C	5		4	0	8	7	8	08/1991	Eichenlau		349	62		
4nc	5	5 1	3	0	8	9	8	07/1992	Akahane		362	3/		
Yorc	5	5 3	9	4	3	0	8	02/1995	Watanabe	et al	362	31		
YMC	5	5 4	7	1	3	4	8	11/1995	Miller et a	al	359	837		
Anc_	5	5 4	7	7	4	2	2	12/1995	Hooker e	t al	362	29		
4C	5	5 5	9	4	5	6	1	01/1997	Blanchar	d	349	59		
4MC	5	6	0	0	4	5	5	02/1997	Ishikawa	et al	349	57		
4nc	5	6	2	5	7	3	6	04/1997	Veligdan		385	120		·
mc.	5	5 7	1	8	4	9	7	02/1998	Yokoyama	et al	362	31		
4MC	5	5 7	3	5	5	9	0	04/1998	Kashima	et al	362	31		
mc	5	5 7	7	1	3	2	8	06/1998	Wortman	et al	385	146		
4hc	5	7	7	9	3	3	7	07/1998	Saito et a	al l	362	3/		
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Ghc_	5	8	4	4	7	2	0	12/1998	Ohara et	al	359	599		
4nc	5	5 8	5	2	5	1	4	12/1998	Toshima	et al	359	599		
Shc	5	9	1	7	6	6	4	06/1999	O'Neill et	al	359	831		
4hc	5	5 9	2	6	6	0	1_	07/1999	Tai et al		385	146		
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